2003-IP-010829U1

M. Vikram Rao

PTO/SB/01 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

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DECLARATION FOR UTILITY OR

DESIGN

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Att rney D ck t Numb r

First Named Inventor

| PATENT APPLICATION | | COMPLETE IF KNOWN | | |
|--|---|--|---|--|
| (37 CFR 1.63) | | Application Number | | |
| Doctoration | Declaration Submitted after Initial Filing (surcharge | Filing Date | | |
| Declaration Submitted OR with Initial | | Art Unit | | |
| Filing (37 CFR 1.16 (e)) required) | | Examiner Name | | |
| As the below named inventor, I here | by declare that: | | | |
| My residence, mailing address, and cit | izenship are as stated belov | w next to my name. | | |
| I believe I am the original and first inve | ntor of the subject matter wh | nich is claimed and for which | ch a patent is sougl | ht on the invention entitled: |
| Improved Particulates an | d Methods of Utiliz | ing These Particu | lates in Subt | erranean |
| Applications | | | | |
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| the specification of which | (Title of the In | vention) | ··· | |
| ਼ ਹਿ | | | | |
| is attached hereto | | | | |
| OR | | | | |
| was filed on (MM/DD/YYYY) | | as United States A | pplication Number | or PCT International |
| | | | | ····· |
| Application Number | and was amende | d on (MM/DD/YYYY) | | (if applicable). |
| | | | | |
| I hereby state that I have reviewed and any amendment specifically referred to | understand the contents of above. | the above identified specif | fication, including t | he claims, as amended by |
| I acknowledge the duty to disclose informations, material information which international filing date of the continuation | i became avallable between | patentability as defined in the filing date of the prior | 37 CFR 1.56, inclu application and the | ding for continuation-in-part and anional or PCT |
| I hereby claim foreign priority benefits | under 35 U.S.C. 119(a)-(d) | or (f), or 365(b) of any fore | ign application(s) | for patent, inventor's or plant |
| breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed. | | | | |
| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? |
| | | (mint 2011 t 1 1) | | YES NO |
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| Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto: | | | | |
| [Page 1 of 2] | | | | |

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DECLARATION — Utility or Design Patent Application

| Direct all correspondence to: Customer Number or Bar Code Lai | · • | OR V C | orrespondence address below | |
|---|-----------------------|---------------------------------|-----------------------------|--|
| Robert A. Kent | | | | |
| Name | | | | |
| Halliburton Energy Services | | | | |
| P.O. Box 1431 | | | | |
| Duncan | | Ok | 73536-0440 | |
| City | | State | ZIP | |
| USA | 580-251 - 3125 | | 580-251-3917 | |
| | elephone | | Fax | |
| I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. | | | | |
| NAME OF SOLE OR FIRST INVENTOR: | A petition h | nas been filed for this uns | igned inventor | |
| Given Name (first and middle [if any]) Rao Family Name or Sumame | | | | |
| Inventor's Signature | | | Date 7/16/03 | |
| Houston | TX | USA | us | |
| Residence: City | State | Country | Citizenship | |
| 6429 Edloe Mailing Address | | | | |
| City Houston | State TX | ZIP 77005 | Country USA | |
| NAME OF SECOND INVENTOR: | A petition ha | is been filed for this unsig | | |
| Given Name Family Name | | | | |
| (first and middle [if any]) Inventor's | | or Surname | | |
| Signature | | | Date | |
| | | | | |
| Residence: City | State | Country | Citizenship | |
| Mailing Address | | | | |
| | | | | |
| City | State | ZIP | Country | |
| Additional inventors are being named on the | _supplemental Addit | ional Inventor(s) sheet(s) PTO/ | SB/02A attached hereto. | |

PTO/SB/81 (05-03)

Approved for use through 11/30/2005. OMB 0651-0035

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Application Number

| | Filing Date | |
|---|------------------------|---------------------------|
| POWER OF ATTORNEY OR AUTHORIZATION OF AGENT | First Named Inventor | M. Vikram Rao |
| | Title | Improved Particulates and |
| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 2003-IP-010829U1 |

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| | attorney(s) or agent(s) to prosect Office connected therewith. | ute the application identified a | above, and to tra | ansact all business | in the United States Patent and |
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| ` | oplicant/Inventor. | | | | |
| 1 | ssignee of record of the entire in tatement under 37 CFR 3.73(b) | | 6). | | |
| | | SIGNATURE of Applicant | or Assignee of | f Record | |
| Name ∠ | Robert A. Kent | / , | | | |
| Signature | Tabul (1-18) | ul | | | |
| Date | 7-79-03 | ······································ | | Telephone | 580-251-3125 |
| | atures of all the inventors or assigned than one signature is required, see | | r their representati | ive(s) are required. Su | ubmit multiple |
| *Tota | al of forms are s | ubmitted. | | | |

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION

REGISTERED PRACTITIONER INFORMATION (Supplemental Sheet)

| Name | Registration Number | Name | Registration Number |
|--|------------------------|------------------------------|------------------------|
| Halliburton Energy Services, Inc. Practitioners | | Baker Botts Practitioners | |
| William E. Shull | 29,438 | Scott F. Partridge | 28,142 |
| Michael D. McCully | 29,566 | Mitchell D. Lukin | 30,772 |
| Mark A. Smith | 30,220 | Claude E. Cooke, Jr. | 34,142 |
| William M. Imwalle | 35,904 | Paul N. Katz | 35,917 |
| Paul I. Herman | 37,349 | Ronald L. Chichester | 36,765 |
| Robert A. Kent | 28,626 | Howard Speight | 37,733 |
| Craig W. Roddy | 36,256 | Michael Hawes | 38,487 |
| John W. Wustenberg | 35,415 | Roger J. Fulghum | 39,678 |
| | | Michael Locklar | 44,878 |
| | | Carey C. Jordan | 47,646 |
| | | John Shumaker | 52,223 |
| | | David C. Sulkis | 52,260 |
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: M. Vikram Rao Application No./Patent No.: Unknown Filed/Issue Date: Concurrently Herewith Entitled: Improved Particulates and Methods of Utilizing these Particulates in Subterranean Applications Halliburton Energy Services, Inc.,a corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) (Name of Assignee) states that it is: 1. \(\overline{\mathbb{N}}\) the assignee of the entire right, title, and interest; or 2. an assignee of less than the entire right, title and interest. in the patent application/patent identified above by virtue of either: A. [XAn assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame ____, or for which a copy thereof is attached. OR B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: 1. From: ______ To: _____ The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached. The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached. To: The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. [x] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Robert A. Kent Typed or printed name Date 580-251-3125 Signature Telephone number

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Senior Counsel
Title

ASSIGNMENT

Whereas, I/We, M. Vikram Rao of Harris County, Houston, Texas, have invented "Improved Particulates and Methods of Utilizing these Particulates in Subterranean Applications" for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on July 16, 2003 , submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

| Executed this 16 | _day of July, 2003, at Houston, Harris County, Texas U.S.A. |
|--------------------------|---|
| | Signature Signature |
| State of Texas |)) ss |
| County of Harris |) |
| Before me personally a | appeared said M. Vikram Rao and acknowledged the foregoing instrument |
| to be his free act and d | eed this 16th day of July, 2003. |
| Scal (N | EBORAH A. HAYS olary Public, State of Texas (Notary Public) |